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CHY OF FORT WORTH
CITY SECRETARY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY APPLICATION FOR PERMIT TO APPROPRIATE STATE WATER (SECTION 11.121, 11.042, 11.085 OR 11.143, TEXAS WATER CODE) TAC CHAPTERS 30, 50, 281, 287, 288, 295, 297 AND 299 Water Supply Division, Water Rights Permitting MC-160

P.O. Box 13087 Austin, Texas 78711-3087 Telephone (512) 239-4691, FAX (512) 239-4770

(if including a check, mail directly to P.O. Box 13088, Austin, TX 78711-3088)

Notice: This form will not be processed until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ are paid in accordance with the Delinquent Fee and Penalty Protocol.

	accordance with the belinquent ree and remary riotocol.			
1.	Applicant Information.			
A. Applicant Name(s): City of Fort Worth				
	Mailing Address: 1000 Throckmorton St.			
	Fort Worth, TX 76102			
	Telephone Number: 817-392-1234 Fax Number:			
	Email Address: jesus.chapa@fortworthtexas.gov			
В.	Customer Reference Number (if issued): CN600128862			
	Note: If you do not have a Customer Reference Number, complete Section II of the Core Data Form (TCEQ-10400) and submit with this application.			
C.	Fees and Penalties			
	Applicant owes fees or penalties?			
	TYes TNo			
	If yes, provide the amount and the nature of the fee or penalty as well as any identifying number:			
D.	Lienholder Information			
	Provide this information on the holder of any liens on any land to which the water right would be appurtenant):			
	<u>N/A</u>			
2.	Dam (structure), Reservoir and Watercourse Data.			
Α.	Type of Storage Reservoir (indicate by checking (√) all applicable)			
	on-channel off-channel existing structure of proposed structure* exempt structure**			
	*Applicant shall provide a copy of the notice that was mailed to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir, will be located as well as copies of the certified malling cards.			
	**TWC Section 11.143 for uses of water for other than domestic, livestock, or fish and wildlife from an existing, exempt reservoir with a capacity of 200 acre-feet or less. Please complete Paragraph 6 below if proceeding under TWC 11.143. Date of Construction: June 2017			
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В.	Location	of	Structure	No.	1
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- 1) Watercourse: Unnamed Tributary to Big Fossil Creek 4
- 2) Location from County Seat: 14 miles in a northerly direction from Fort Worth,

Tarrant County, Texas.

Location from nearby town (if other than County Seat): _____ miles in a _____ direction ____, a nearby town

shown on county highway map.

- 3) Zip Code: 76052
- 4) The dam will be/is located in the Henry Robertson Original Survey No. 1037, Abstract No. 1259 in Tarrant County, Texas.
- 5) Station 0+00 on the centerline of the dam is N04°E (bearing), 1375 feet (distance) from the interior corner of Henry Robertson Original Survey No. 1037, Abstract No. 1259, in Tarrant County,

Texas, also being at Latitude 32.9281289°N, Longitude 97.3564860°W.

(Structure point calculated from GPS coordinates in NAD83 North Central Texas State Plane)

Provide the Latitude and Longitude coordinates in decimal degrees, to at least six decimal places, and indicate the method used to calculate the diversion point location.

C. Reservoir:

- 1) Acre-feet of water impounded by structure at normal maximum operating level: 3 acre-ft
- 2) Surface area in acres of reservoir at normal maximum operating level: 0.66 acres
- D. Drainage Area

The drainage area above the dam is 347 acres or 0.542 square miles.

E. Other

- 1) If this is a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service (SCS)) floodwater-retarding structure, provide the Site No. N/A and watershed project name N/A.
- 2) Do you request authorization to close the "ports" or "windows" in the service spillway?

T Yes ₹ No

- 3. Appropriation/Diversion Request (total amount of water needed, including maximum projected uses and accounting for evaporative losses for off-channel storage, if applicable).
- A. Appropriated water will be used as follows:

	Purpose*	Place of Use	Acre-feet per year
1)	Irrigation	Turfgrassed areas around site	18.17 acre-ft
2)	Water Quality	Throughout site and within ponds	Any excess runoff from irrigation
3)	Landscaping	Throughout site and within channel	Any excess runoff from irrigation

^{*}If agricultural use, list crops(s) to be irrigated:

N/A

B. L	ands	to	be	irrigated	(if	applicable):
------	------	----	----	-----------	-----	------------	----

- 1) Applicant proposes to irrigate a total of 6.35 acres in any one year. This acreage is all of or part of a larger tract(s) which is described in a supplement attached to this application and contains a total of 75.732 acres in <u>Tarrant</u> County, Texas. A copy of the deed(s) describing the overall tract(s) with the recording information from the county records is attached.
- 2) Location of land to be irrigated: In the <u>Henry Robertson</u> Original Survey No. <u>1037</u>, Abstract No. <u>1259</u>.
- C. Diversion Point No. 1.
 - 1) Watercourse: Unnamed Tributary to Big Fossil Creek 4.
 - Location of point of diversion at Latitude <u>32.9281289</u>°N, Longitude <u>97.3564860</u>°W,
 (Diversion point calculated from GPS coordinates in NAD83 North Central Texas State Plane)

Provide Latitude and Longitude coordinates in decimal degrees, to at least six decimal places, and indicate the method used to calculate the diversion point location.

also bearing N04°E, 1375 feet (distance) from the <u>Interior</u> corner of the <u>Henry Robertson</u> Original Survey No. 1037, Abstract No.1259, Tarrant County, Texas.

3) Location from County Seat: 14 miles in a Northerly direction from

Fort Worth, Tarrant County, Tex	as.	•
Location from nearby town (if ot	her than County Seat):	miles in a
direction from	1	, a nearby town shown on county
highway map.		

- 4) Zip Code: <u>76052</u>
- 5) The diversion will be (check (√) all appropriate boxes and if applicable, indicate whether existing or proposed):

	Directly from stream	Existing	Proposed
×	From an on-channel reservoir		X
	From stream to an off-channel reservoir		
	From a stream to an on-channel reservoir		
	From an off-channel reservoir		
	Other method (explain fully, use additional sheets if necessary)		

Other method (explain fully, use additional sheets if necessary)	
6) Rate of Diversion (Check (√) applicable provision):	
X_1. Diversion Facility:	
A. <u>147</u> Maximum gpm (gallons per minute)	
B1 Number of pumps	
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	C, <u>centrifugal</u> Type of pump
	D. <u>147</u> gpm, Pump capacity of each pump
	E. Portable pump Yes or X No.
_	_2. If by gravity:
	A Headgate Diversion Dam Maximum gpm
	B Other method (explain fully - use additional sheets if necessary)
	7) The drainage area above the diversion point is <u>347</u> acres or <u>0.542</u> square miles.
	Return Water or Return Flow (location and quantity information, provide Latitude and Longitude coordinates in
dea	cimal degrees to at least six decimal places and indicate the method used to calculate the diversion point location):
	Water which is diverted but not consumed as a result of the above stated use, will be returned to
	, tributary of
	, tributary of,
	Basin, at a point which is at Latitude°N, Longitude°W
	, also, bearing
	(direction), feet (distance) from the
	corner of the Original Survey
	No, Abstract No, in County, Texas.
	Zip Code:
	Estimated annual amount of return flow to said stream will be acre-feet.
E.	Surplus Water (provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places and cate the method used to calculate the diversion point location):
	Water which is diverted but not used beneficially will be returned to
	tributary of Basin at a point
	which is at Latitude°N, Longitude°W, also
	bearing°(direction),feet
	(distance) from the corner of the Original Survey
	No, Abstract No, in County, Texas.
	Zip Code:
4. [Discharge Point Information (if applicable, provide Latitude and Longitude coordinates in decimal degrees to at
	t six decimal places and indicate the method used to calculate the diversion point location).
	Discharge Point No. or Name:
A.	Select the appropriate box for the source of water being discharged:
	☐ Treated effluent
	☐ Groundwater
	□Other
B.	Location of discharge point will be/is at Latitude° N, Longitude°W,
	also bearing°,feet from the corner of the
Forr	n TCEQ-10214 (revised 02/10 Page 4

	Origin	nal Survey No, Abstract No, in County, Texas.					
		method was used to determine the Latitude and Longitude for the discharge point? (i.e., USGS 7.5 Topographic Map, etc.)	GPS				
C.	. Locati	ion from County Seat: miles in a direction from					
	postatue.	County, Texas.					
	Lo	ocation from nearby town (if other than County Seat): miles in a					
	dir	rection from, a nearby town shown on county highway map.					
D.	Zip Co	ode:					
E.	Water	will be discharged into stream/reservoir,					
		ributaries)					
		Basin.					
F.	Water	will be discharged at a maximum rate of					
G.	The an	mount of water that will be discharged is acre-feet per year.					
Н.	The pu	urpose of use for the water being discharged will be					
ł.	Additio	onal information required:					
	For gro	oundwater					
	1)	Provide water quality analysis and 24 hour pump test for the well if one has been conduct	ied,				
	2)	Locate and label the groundwater well(s) on a USGS 7.5 Minute Topographic Map					
	3)	Provide a copy of the groundwater well permit if it is located in a Groundwater Conservation.	ation				
	4)	What aquifer the water is being pumped from?					
	For trea	eated effluent					
	1)	What is the TPDES Permit Number? Provide a copy of the permit.					
	2)	Provide the monthly discharge data for the past 5 years.					
	3)	What % of treated water was groundwater, surface water?					
	4)	If any original water is surface water, provide the base water right number.					
5.	General	Il Information.					
Α.	The pro	oposed <u>X</u> or existing <u></u> works will be (are) located on the land of <u>301 Hillshire E</u> e mailing address is <u>311 Hillshire Dr. Fort Worth, TX 76052</u>	<u>)r.</u>				
В.	lf an ap	oplication for the appropriation is granted, either in whole or in part, construction works will					
	begin w	begin within one year after such permit is issued. The proposed work will be					
	comple	eted within three years from the date the permit is issued.					
C.	A Wate	er Conservation Plan is attached? X Yes No.					
D.	X	_interbasin transfer is not requested.					
		_Applicant requests authorization to transfer acre-feet of water per year from	the				
		Basin to the Basin of which					
		acre-feet of water will be used for purposes and					

	acre-feet of wate	er will be used for		-,		pu	rposes.
E.	Bed and Banks requ	uest to transfer	a	re-feet of	wate	r per yea	ar within the bed
	and banks of	, trib	utary of				1
		Basin.					
F.	Is this project located within	200 river miles of th	e coast? _	Yes .	X_	_No	Unknown
5.	Maps, plats, plans, and dra Sections.	wings accompany	this applic	ation as	requi	ired by a	applicable TAC
	X Yes _ No. Attach addition	al sheets.					
6.	The dam(s) and rese domestic and livestock purpo Water Code.						
7.	Provide information describir is consistent with the state w which the proposed appropri waiver of this requirement.	ater plan or the app	licable appr	oved region	onal v	vater pla	n for any area in
	These 3 reservoirs in series water supply.	will allow irrigation to					unoff, not public
	A						
	Dern	h					
	Applicant Name	(Sigh)	,	Applio	ant Na	ıme (Sign)	
GPB	Jesus J. Chapa, Assistar Applicant Name			Applic	ant Na	me (Printe	d)
SW	ORN TO AND SUBSCRIBED	before me this	day of	Mar	<u>eh</u>		_, 20
	Notary Public	HIRRLINGER s, State of Texas res 02-02-2018 12414474-6		Line Notary Pub			HUSLUNZY Texas
Form	CEO-9L214 (revisted 2000)	Attested by: Mary J. Kays	er, Civy	Secreta	ïV		Page 6

Supplemental Dam/Reservoir Information Sheet

Dam (structure), Reservoir and Watercourse Data

A.	Type of Storage Reservoir (indicate by checking (√) all applicable)						
	on-channel off-channel existing structure proposed structure* exempt structure*						
	*Applicant shall provide a copy of the notice that was mailed to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir, will be located as well as copies of the certified mailing cards.						
	**TWC Section 11.143 for uses of water for other than domestic, livestock, or fish and wildlife from an existing, exempt reservoir with a capacity of 200 acre-feet or less. Please complete Paragraph 6 below if proceeding under TWC 11.143.						
	Date of Construction: June 2017						
В.	Location of Structure No. 2.						
	1) Watercourse: <u>Unnamed Tributary to Big Fossil Creek 4</u>						
	2) Location from County Seat: 14 miles in a northerly direction from Fort Worth,						
	<u>Tarrant</u> County, Texas.						
	Location from nearby town (if other than County Seat): miles in a direction from						
	, a nearby town shown on county highway map.						
	3) Zip Gode: <u>76052</u>						
	4) The dam will be/is located in the Henry Robertson Original Survey						
	No. <u>1037</u> , Abstract No. <u>1259</u> in <u>Tarrant</u> County, Texas.						
	5) Station <u>0+00</u> on the centerline of the dam is <u>N11°W</u> (bearing), <u>1120</u> feet						
	(distance) from the interior corner of Henry Robertson Original						
	Survey No. <u>1037</u> , Abstract No. <u>1259</u> , in <u>Tarrant</u> County, Texas, also						
	being at Latitude <u>32.9273870</u> °N, Longitude <u>97.3575269</u> °W.						
	(Structure point calculated from GPS coordinates in NAD83 North Central Texas State Plane)						
	Provide Latitude and Longitude coordinates in decimal degrees to at least six decimal places and indicate the method used to calculate the diversion point location						
C.	Reservoir:						
	1) Acre-feet of water impounded by structure at normal maximum operating level: 5 acre-ft						
	2) Surface area in acres of reservoir at normal maximum operating level: 1.21 acres						
D.	The drainage area above the dam is $\underline{361}$ acres or $\underline{0.564}$ square miles.						
E.	Other:						
	1) If this is a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation						
	Service (SCS)) floodwater-retarding structure, provide the Site No and watershed						
	project name						
	2) Do you request authorization to close the "ports" or "windows" in the service spillway?						
	Tiyes Fino						

Supplemental Dam/Reservoir Information Sheet

Dam (structure), Reservoir and Watercourse Data

A.	Type of Storage Reservoir (indicate by checking (√) all applicable)					
	on-channel off-channel existing structure proposed structure* exempt structure**					
	*Applicant shall provide a copy of the notice that was mailed to each member of the governing body of each county and municipality in which the reservoir, or any part of the reservoir, will be located as well as copies of the certified mailing cards.					
	**TWC Section 11.143 for uses of water for other than domestic, livestock, or fish and wildlife from an existing, exempt reservoir with a capacity of 200 acre-feet or less. Please complete Paragraph 6 below if proceeding under TWC 11.143.					
	Date of Construction June 2017					
В.	Location of Structure No. 3.					
	1) Watercourse: <u>Unnamed Tributary to Big Fossil Creek</u>					
	2) Location from County Seat: 14 miles in a northerly direction from Fort Worth,					
	Tarrant County, Texas.					
	Location from nearby town (if other than County Seat): miles in a direction from					
	, a nearby town shown on county highway map.					
	3) Zip Code: <u>76052</u>					
	4) The dam will be/is located in the <u>Henry Robertson</u> Original Survey					
	No. <u>1037,</u> Abstract No. <u>1259</u> in <u>Tarrant</u> County, Texas.					
	5) Station <u>0+00</u> on the centerline of the dam is <u>N23°W</u> (bearing), <u>1000</u> feet					
•	(distance) from the interior corner of Henry Robertson Original					
	Survey No. <u>1037</u> , Abstract No. <u>1259</u> , in <u>Tarrant</u> County, Texas, also					
	being at Latitude <u>32.9269025</u> °N, Longitude <u>97.3580980</u> °W.					
	(Structure point calculated from GPS coordinates in NAD83 North Central Texas State Plane)					
	Provide Latitude and Longitude coordinates in decimal degrees, to at least six decimal places, and indicate the method used to calculate the diversion point location.					
C.	Reservoir:					
	1) Acre-feet of water impounded by structure at normal maximum operating level: 21 acre-ft					
	2) Surface area in acres of reservoir at normal maximum operating level: 3.83 acres					
D.	The drainage area above the dam is 368 acres or 0.575 square miles.					
E.	Other:					
	1) If this is a U.S. Natural Resources Conservation Service (NRCS) (formerly Soil Conservation					
	Service (SCS)) floodwater-retarding structure, provide the Site No and watershed					
	project name					
	2) Do you request authorization to close the "ports" or "windows" in the service spillway?					
	Tyes TNo					

Supplemental Diversion Point Information Sheet

Diversion Point No. <u>2</u>. (Provide a completed *Supplemental Diversion Point Information Sheet* for additional diversions)

1)	Watercourse: Unnamed Tributary to Big Fossil Creek 4			
2)	Location of point of diversion at Latitude 32.9273870°N, Longitude 97.3575269°W,			
•	also, bearing N11°E, 1120 feet (distance) from the <u>interior</u> corner of the			
	Henry Robertson Original Survey No. 1037, Abstract No. 1259, in			
	Tarrant County, Texas. Provide Latitude and Longitude coordinates in decimal degrees, to at least six decimal places, and indicate the method used to calculate the diversion point location.			
	(Diversion point calculated from GPS coordinates in NAD83 North Central Texas State Plane)			
3)) Location from County Seat: <u>14</u> miles in a <u>northerly</u> direction from <u>Fort Worth,</u>			
	Tarrant County, Texas.			
	Location from nearby town (if other than County Seat): miles	in a		
	direction from, a nearby town shown on county h	nighway map.		
4)	Zip Code:			
5)	The diversion will be (check ($$) all appropriate boxes and if applicable, or proposed):	indicate whet	her existing	
	Directly from stream	Existing	Proposed	
	From an on-channel reservoir		X	
	From stream to an off-channel reservoir			
	From a stream to an on-channel reservoir			
	From an off-channel reservoir			
	Other method (explain fully, use additional sheets if necessary)			
	Rate of Diversion (Check ($$) applicable provision): X_1. Diversion Facility: A147 Maximum gpm (gallons per minute) 1)1 Number of pumps 2)centrifugal Type of pump 3)147 gpm, Pump capacity of each pump 4) Portable pump Yes orX No		j	
	2. If by gravity: A Headgate Diversion Dam Maximum	anm		

	Supplemental Diversion Point Information Sheet					
D	Diversion Point No. 3.					
	1) Watercourse: <u>Unnamed Tributary to Big Fossil Creek 4</u>					
	2) Location of point of diversion at Latitude 32.9269025°N, Longitude 97.3580980°W,					
	also, bearing N23°W, 1000 feet (distance) from the interior corner of the					
	Henry Robertson Original Survey No. <u>1037</u> , Abstract No. <u>1259</u> , in					
	Tarrant County, Texas. Provide Latitude and Longitude coordinates in decimal degrees, to at least six decimal places, and indicate the method used to calculate the diversion point location.					
	3)	Location from County Seat: 14 miles in a northerly direction from Fort V	<u>Vorth</u> ,			
	<u>Tarrant</u> County, Texas.					
		Location from nearby town (if other than County Seat): miles	in a			
	direction from, a nearby town shown on county highway map.					
	4) Zip Code: <u>76052</u>					
	5) The diversion will be (check (√) all appropriate boxes and if applicable, indicate whether existing or proposed):					
		Directly from stream	Existing	Proposed		
Χ	·	From an on-channel reservoir		X		
		From stream to an off-channel reservoir				
		From a stream to an on-channel reservoir				
		From an off-channel reservoir				
		Other method (explain fully, use additional sheets if necessary)				
		Rate of Diversion (Check ($$) applicable provision): X 1. Diversion Facility: A. 147 Maximum gpm (gallons per minute) 1) 1 Number of pumps 2) centrifugal Type of pump 3) 147 gpm, Pump capacity of each pump 4) Portable pump Yes or X No				

7) The drainage area above the diversion point is $\underline{368}$ acres or $\underline{0.575}$ square miles.

_____2. If by gravity:

A._____ Headgate _____ Diversion Dam _____ Maximum gpm

B._____ Other method (explain fully - use additional sheets if necessary)

Texas Commission on Environmental Quality



SYSTEM INVENTORY AND WATER CONSERVATION PLAN FOR INDIVIDUALLY-OPERATED IRRIGATION SYSTEMS

This form is provided to assist entities in conservation plan development for individually-operated irrigation systems. If you need assistance in completing this form or in developing your plan, please contact the conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

Name:	City of Fort Worth			
Address:	1000 Throckmorton St. Fort Worth, Tx 76102			
Telephone Number:	(817)392-1234 Fax: ()			
Form Completed by:	Kyle McCage (James DeOtte Engineering, Inc.)			
Title:	Project Manager			
Signature:	Date: 3/8/2016			
	Jesus J. Chapa, City of Fort Worth Assistant City Manager			

NOTE: If the plan does not provide information for each requirement, include an explanation of why the requirement is not applicable.

I. BACKGROUND DATA

A. Water Use

1. Annual diversion appropriated or requested (in acre-feet): 18.27

Type of crop (include hybrid name e.g., type of coastal Bermuda)	Growing season (months)	Acres irrigated/year
Beds (Fountain grass, Mexican feather grass) Turf Area (buffalo grass, wild		.03
flower mix)		5.28
Trees (Bur Oak, Texas Red bud)		1.04
	Total acres	6.35

2. In the table below, list the total amount of water (in acre-feet) on average that is or will be diverted monthly for irrigation during the year.

January	February	March	April	Subtotals
-53	.73	1.21	1.53	4.01
May	June	July	August	
2.20	2.50	2.60	2.41	9.72
September	October	November	December	
1.32	1.33	.78	.51	4.44

Total All Months	18.17
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3.	Are crops rotated seasonally or annually?	☐ Yes	⊠ No
	If yes, please describe:		

4. Describe soil type (including permeability characteristics, if applicable).

Dark brown to brown clay

B. Irrigation system information

 Describe the existing irrigation method or system and associated equipment including pumps, flow rates, plans, and/or sketches of system the layout. Include the rate (in gallons per minute or cubic feet per second) that water is diverted from the source of supply.

It is proposed that three 147 gpm centrifugal pumps will be utilized to distribute storm water to landscape and bio-detention areas. During peak demand, all three pumps will operate for approximately 70 minutes per day. The irrigation system will provide water to maintain vegetation in the bio-swales, bio-detention and bio-retention during periods of low to little rain. This vegetation, along with the vegetation around the ponds, will improve water quality for storm water leaving the site. It also has the advantage of reducing the requirement for City of Fort Worth treated water for irrigation.

- Describe the method(s) and/or device(s) within an accuracy of plus or minus 5% used to measure and account for the amount of water diverted from the source of supply.
 Individual meters will be installed at each pump to measure flow diverted from the ponds.
- 3. Describe the specific and quantified five-year and ten-year targets for water savings including, where appropriate, quantitative goals for irrigation water use efficiency.

Quantified five-year and ten-year targets are:

a. $5 \text{ year goal } \underline{80} \% \text{ system efficiency or save } \underline{47.88} \text{ acre-feet}$

b. 10 year goal 80% system efficiency or save 95.76 acre-feet

(Ex. System efficiencies 80 % sprinkler, 90 % LEPA, 95 % drip)

4. If there is an existing irrigation system, have any system evaluations been performed on the efficiency of the system?

Yes

⊠ No

If yes, please provide the date of the evaluation, evaluator's name and the results of the evaluation:

C. Conservation practices

1. Describe any water conserving equipment, application system or method in the irrigation system.

The system contains a rain sensor shut off device, Hunter ET system, and an IMMS (Irrigation Management Monitoring System).

2. Describe any methods that will be used for water loss control and leak detection and repair.

The IMMS reports all alarms detected within the system such a flow violations, over currents, and water window violations.

3. Describe any water-saving scheduling or practices to be used in the application of water (e.g., irrigation only in early morning, late evening or night hours and/or during lower temperatures and winds) and the utilization of soil-moisture monitoring.

Water-saving practices include rain sensor shut off, weather based irrigation controller and the Hunter ET system which calculates microclimate to produce irrigation program.

4. Describe any water-saving land improvements or plans to be incorporated into the irrigation practices (e.g., land leveling, conservation tillage, furrow diking, weed control, etc.).

N/A

5. Describe any recovery and reuse of tail water runoff.

All excess runoff that is diverted from the ponds by pumping into the irrigation system will be directed back into the ponds and not leave the system.

6. Describe any other water conservation practices, methods, or techniques for preventing waste and achieving conservation.

Used matched precipitation nozzling, prepared densograms to verify distribution, uniformity and effciency of irrigation system, developed written specs, construction documents, and details.

Best Management Practices

The Texas Water Developmental Board's (TWDB) Report 362 is the Water Conservation Best Management Practices (BMP) guide. The BMP Guide is a voluntary list of management practices that water users may implement in addition to the required components of Title 30, Texas Administrative Code, Chapter 288. The Best Management Practices Guide broken out by sector, including Agriculture, Commercial, and Institutional, Industrial, Municipal and Wholesale along with any new or revised BMP's can be found at the following link on the Texas Water Developments Board's website: http://www.twdb.state.tx.us/conservation/bmps/index.asp

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact 512-239-3282.